



Seq List
SEQUENCE LISTING

<110> Stern, David M
Schmidt, Anne Marie
Marso, Steven
Topol, Eric
Lincoff, A. Michael

<120> A Method for Inhibiting New Tissue Growth in Blood Vessels in a Patient
Subjected to Blood Vessel Injury

<130> 0575-62096/JPW/AJM/AAB

<140> 09/687,528

<141> 2000-10-13

<160> 6

<170> PatentIn version 3.1

<210> 1

<211> 416

<212> PRT

<213> Cow

<400> 1

Met Ala Ala Gly Ala val val Gly Ala Trp Met Leu val Leu Ser Leu
1 5 10 15

Gly Gly Thr val Thr Gly Asp Gln Asn Ile Thr Ala Arg Ile Gly Lys
20 25 30

Pro Leu val Leu Asn Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Gln
35 40 45

Seq List

Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val Leu
50 55 60

Ser Pro Gln Gly Asp Pro Trp Asp Ser Val Ala Arg Val Leu Pro Asn
65 70 75 80

Gly Ser Leu Leu Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Thr Phe
85 90 95

Arg Cys Arg Ala Thr Ser Arg Ser Gly Lys Glu Thr Lys Ser Asn Tyr
100 105 110

Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Pro
115 120 125

Ala Ser Glu Leu Met Ala Gly Val Pro Asn Lys Val Gly Thr Cys Val
130 135 140

Ser Glu Gly Gly Tyr Pro Ala Gly Thr Leu Asn Trp Leu Leu Asp Gly
145 150 155 160

Lys Thr Leu Ile Pro Asp Gly Lys Gly Val Ser Val Lys Glu Glu Thr
165 170 175

Lys Arg His Pro Lys Thr Gly Leu Phe Thr Leu His Ser Glu Leu Met
180 185 190

Val Thr Pro Ala Arg Gly Gly Ala Leu His Pro Thr Phe Ser Cys Ser
195 200 205

Phe Thr Pro Gly Leu Pro Arg Arg Arg Ala Leu His Thr Ala Pro Ile
210 215 220

Gln Leu Arg Val Trp Ser Glu His Arg Gly Gly Glu Gly Pro Asn Val
225 230 235 240

Asp Ala Val Pro Leu Lys Glu Val Gln Leu Val Val Glu Pro Glu Gly
245 250 255

Gly Ala Val Ala Pro Gly Gly Thr Val Thr Leu Thr Cys Glu Ala Pro
260 265 270

Ala Gln Pro Pro Pro Gln Ile His Trp Ile Lys Asp Gly Arg Pro Leu
275 280 285

Pro Leu Pro Pro Gly Pro Met Leu Leu Leu Pro Glu Val Gly Pro Glu
290 295 300

Seq List

Asp Gln Gly Thr Tyr Ser Cys Val Ala Thr His Pro Ser His Gly Pro
305 310 315 320

Gln Glu Ser Arg Ala Val Ser Val Thr Ile Ile Glu Thr Gly Glu Glu
325 330 335

Gly Thr Thr Ala Gly Ser Val Glu Gly Pro Gly Leu Glu Thr Leu Ala
340 345 350

Leu Thr Leu Gly Ile Leu Gly Gly Leu Gly Thr Val Ala Leu Leu Ile
355 360 365

Gly Val Ile Val Trp His Arg Arg Arg Gln Arg Lys Gly Gln Glu Arg
370 375 380

Lys Val Pro Glu Asn Gln Glu Glu Glu Glu Glu Glu Arg Ala Glu Leu
385 390 395 400

Asn Gln Pro Glu Glu Pro Glu Ala Ala Glu Ser Ser Thr Gly Gly Pro
405 410 415

<210> 2

<211> 1426

<212> DNA

<213> Cow

<400> 2
cggagaagga tggcagcagg ggcagtggtc ggagcctgga tgctagtcct cagtctgggg 60
gggacagtca cgggggacca aaacatcaca gcccggatcg ggaagccact ggtgctgaac 120
tgcaagggag cccccaagaa accaccccag cagctggaat ggaaactgaa cacaggccgg 180
acagaagctt ggaaagtcct gtctccccag ggagaccctt gggatagcgt ggctcgggtc 240
ctccccaacg gctccctcct cctgccggct gttgggatcc aggatgaggg gactttccgg 300
tgccgggcaa cgagccggag cggaaaggag accaagtcta actaccgagt ccgagtctat 360
cagattcctg ggaagccaga aattgttgat cctgcctctg aactcatggc tgggtgtcccc 420
aataaggtgg ggacatgtgt gtccgagggg ggctaccctg cagggactct taactggctc 480
ttggatggga aaactctgat tcctgatggc aaaggagtgt cagtgaagga agagaccaag 540
agacacccaa agacagggtt ttccacgctc cattcggagc tgatggtgac cccagctcgg 600
ggaggagctc tccacccac cttctcctgt agcttcaccc ctggccttcc ccggcgccga 660
gccctgcaca cggcccccat ccagctcagg gtctggagtg agcaccgagg tggggagggc 720

Seq List

```

cccaacgtgg acgctgtgcc actgaaggaa gtccagttgg tggtagagcc agaagggggga 780
gcagtagctc ctggtggtac tgtgaccttg acctgtgaag ccccgccca gccccacct 840
caaatccact ggatcaagga tggcaggccc ctgccccctc cccctggccc catgctgctc 900
ctcccagagg tagggcctga ggaccaggga acctacagtt gtgtggccac ccattcccagc 960
catgggcccc aggagagccg tgctgtcagc gtcacgatca tcgaaacagg cgaggagggg 1020
acgactgcag gctctgtgga agggccgggg ctggaaaccc tagccctgac cctggggatc 1080
ctgggaggcc tggggacagt cgccctgctc attgggggtca tcgtgtggca tcgaaggcgg 1140
caacgcaaag gacaggagag gaagggtccc gaaaaccagg aggaggaaga ggaggagaga 1200
gcggaactga accagccaga ggagcccag gcggcagaga gcagcacagg agggccttga 1260
ggagcccacg gccagaccg atccatcagc cccctttctt tccccacact ctgttctggc 1320
cccagaccag ttctcctctg tataatctcc agcccacatc tcccaaactt tcttcacaa 1380
ccagagcctc ccacaaaaag tgatgagtaa acacctgcca cattta 1426

```

<210> 3

<211> 404

<212> PRT

<213> Human

<400> 3

Gly Ala Ala Gly Thr Ala Val Gly Ala Trp Val Leu Val Leu Ser Leu
1 5 10 15

Trp Gly Ala Val Val Gly Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu
20 25 30

Pro Leu Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg
35 40 45

Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val Leu
50 55 60

Ser Pro Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu Pro
65 70 75 80

Asn Gly Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile
85 90 95

Phe Arg Cys Arg Ala Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn
Page 4

										Seq List										
100					105						110									
Tyr	Arg	Val	Arg	Val	Tyr	Gln	Ile	Pro	Gly	Lys	Pro	Glu	Ile	Val	Asp					
		115					120					125								
Ser	Ala	Ser	Glu	Leu	Thr	Ala	Gly	Val	Pro	Asn	Lys	Val	Gly	Thr	Cys					
	130					135					140									
Val	Ser	Glu	Gly	Ser	Tyr	Pro	Ala	Gly	Thr	Leu	Ser	Trp	His	Leu	Asp					
145					150					155					160					
Gly	Lys	Pro	Leu	Val	Pro	Asn	Glu	Lys	Gly	Val	Ser	Val	Lys	Glu	Gln					
			165						170					175						
Thr	Arg	Arg	His	Pro	Glu	Thr	Gly	Leu	Phe	Thr	Leu	Gln	Ser	Glu	Leu					
			180					185					190							
Met	Val	Thr	Pro	Ala	Arg	Gly	Gly	Asp	Pro	Arg	Pro	Thr	Phe	Ser	Cys					
		195					200					205								
Ser	Phe	Ser	Pro	Gly	Leu	Pro	Arg	His	Arg	Ala	Leu	Arg	Thr	Ala	Pro					
	210					215					220									
Ile	Gln	Pro	Arg	Val	Trp	Glu	Pro	Val	Pro	Leu	Glu	Glu	Val	Gln	Leu					
225					230					235					240					
Val	Val	Glu	Pro	Glu	Gly	Gly	Ala	Val	Ala	Pro	Gly	Gly	Thr	Val	Thr					
				245					250					255						
Leu	Thr	Cys	Glu	Val	Pro	Ala	Gln	Pro	Ser	Pro	Gln	Ile	His	Trp	Met					
			260					265					270							
Lys	Asp	Gly	Val	Pro	Leu	Pro	Leu	Pro	Pro	Ser	Pro	Val	Leu	Ile	Leu					
		275					280					285								
Pro	Glu	Ile	Gly	Pro	Gln	Asp	Gln	Gly	Thr	Tyr	Ser	Cys	Val	Ala	Thr					
	290					295					300									
His	Ser	Ser	His	Gly	Pro	Gln	Glu	Ser	Arg	Ala	Val	Ser	Ile	Ser	Ile					
305					310					315					320					
Ile	Glu	Pro	Gly	Glu	Glu	Gly	Pro	Thr	Ala	Gly	Ser	Val	Gly	Gly	Ser					
				325					330					335						
Gly	Leu	Gly	Thr	Leu	Ala	Leu	Ala	Leu	Gly	Ile	Leu	Gly	Gly	Leu	Gly					
			340					345					350							

Seq List

Thr Ala Ala Leu Leu Ile Gly Val Ile Leu Trp Gln Arg Arg Gln Arg
 355 360 365

Arg Gly Glu Glu Arg Lys Ala Pro Glu Asn Gln Glu Glu Glu Glu Glu
 370 375 380

Arg Ala Glu Leu Asn Gln Ser Glu Glu Pro Glu Ala Gly Glu Ser Ser
 385 390 395 400

Thr Gly Gly Pro

<210> 4
 <211> 1391
 <212> DNA
 <213> Human

<400> 4

ggggcagccg gaacagcagt tggagcctgg gtgctggtcc tcagtctgtg gggggcagta	60
gtaggtgctc aaaacatcac agcccggatt ggcgagccac tgggtgctgaa gtgtaagggg	120
gcccccaaga aaccacccca gcggctggaa tggaaactga acacaggccg gacagaagct	180
tggaaggtcc tgtctccca gggaggaggc ccctgggaca gtgtggctcg tgtccttccc	240
aacggctccc tcttccttcc ggctgtcggg atccaggatg aggggatttt ccggtgcagg	300
gcaatgaaca ggaatggaaa ggagaccaag tccaactacc gagtccgtgt ctaccagatt	360
cctgggaagc cagaaattgt agattctgcc tctgaactca cggctggtgt tcccaataag	420
gtggggacat gtgtgtcaga ggggaagctac cctgcaggga ctcttagctg gcacttgat	480
gggaagcccc tgggtgcctaa tgagaaggga gtatctgtga aggaacagac caggagacac	540
cctgagacag ggctcttcac actgcagtcg gagctaattg tgaccccagc ccggggagga	600
gatccccgtc ccaccttctc ctgtagcttc agcccaggcc ttccccgaca ccgggccttg	660
cgcacagccc ccatccagcc ccgtgtctgg gagcctgtgc ctctggagga ggtccaattg	720
gtggtggagc cagaagggtg agcagtagct cctggtggaa ccgtaaccct gacctgtgaa	780
gtccctgccc agccctctcc tcaaattcac tggatgaagg atggtgtgcc cttgcccctt	840
ccccccagcc ctgtgctgat cctccctgag atagggcctc aggaccaggg aacctacagc	900
tgtgtggcca cccattccag ccacgggccc caggaaagcc gtgctgtcag catcagcatc	960
atcgaaccag gcgaggagg gccaactgca ggctctgtgg gaggatcagg gctgggaact	1020
ctagccctgg ccctggggat cctgggaggc ctggggacag ccgccctgct cattggggtc	1080

Seq List

atctttgtggc aaaggcggca acgccgagga gaggagagga agggcccaga aaaccaggag 1140
gaagaggagg agcgtgcaga actgaatcag tcggaggaac ctgaggcagg cgagagtagt 1200
actggaggggc cttgaggggc ccacagacag atcccatcca tcagctccct tttctttttc 1260
ccttgaactg ttctggcctc agaccaactc tctcctgtat aatctctctc ctgtataacc 1320
ccaccttgcc aagcttttct ctacaaccag agccccccac aatgatgatt aaacacctga 1380
cacatcttgc a 1391

<210> 5

<211> 403

<212> PRT

<213> Mouse

<400> 5

Met Pro Ala Gly Thr Ala Ala Arg Ala Trp Val Leu Val Leu Ala Leu
1 5 10 15

Trp Gly Ala Val Ala Gly Gly Gln Asn Ile Thr Ala Arg Ile Gly Glu
20 25 30

Pro Leu Val Leu Ser Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Gln
35 40 45

Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val Leu
50 55 60

Ser Pro Gln Gly Gly Pro Trp Asp Ser Val Ala Gln Ile Leu Pro Asn
65 70 75 80

Gly Ser Leu Leu Leu Pro Ala Thr Gly Ile Val Asp Glu Gly Thr Phe
85 90 95

Arg Cys Arg Ala Thr Asn Arg Arg Gly Lys Glu Val Lys Ser Asn Tyr
100 105 110

Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp Pro
115 120 125

Ala Ser Glu Leu Thr Ala Ser Val Pro Asn Lys Val Gly Thr Cys Val
130 135 140

Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp Gly
145 150 155 160

Seq List

Lys Leu Leu Ile Pro Asp Gly Lys Glu Thr Leu Val Lys Glu Glu Thr
165 170 175

Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Arg Ser Glu Leu Thr
180 185 190

Val Ile Pro Thr Gln Gly Gly Thr Thr His Pro Thr Phe Ser Cys Ser
195 200 205

Phe Ser Leu Gly Leu Pro Arg Arg Arg Pro Leu Asn Thr Ala Pro Ile
210 215 220

Gln Leu Arg Val Arg Glu Pro Gly Pro Pro Glu Gly Ile Gln Leu Leu
225 230 235 240

Val Glu Pro Glu Gly Gly Ile Val Ala Pro Gly Gly Thr Val Thr Leu
245 250 255

Thr Cys Ala Ile Ser Ala Gln Pro Pro Pro Gln Val His Trp Ile Lys
260 265 270

Asp Gly Ala Pro Leu Pro Leu Ala Pro Ser Pro Val Leu Leu Leu Pro
275 280 285

Glu Val Gly His Ala Asp Glu Gly Thr Tyr Ser Cys Val Ala Thr His
290 295 300

Pro Ser His Gly Pro Gln Glu Ser Pro Pro Val Ser Ile Arg Val Thr
305 310 315 320

Glu Thr Gly Asp Glu Gly Pro Ala Glu Gly Ser Val Gly Glu Ser Gly
325 330 335

Leu Gly Thr Leu Ala Leu Ala Leu Gly Ile Leu Gly Gly Leu Gly Val
340 345 350

Val Ala Leu Leu Val Gly Ala Ile Leu Trp Arg Lys Arg Gln Pro Arg
355 360 365

Arg Glu Glu Arg Lys Ala Pro Glu Ser Gln Glu Asp Glu Glu Glu Arg
370 375 380

Ala Glu Leu Asn Gln Ser Glu Glu Ala Glu Met Pro Glu Asn Gly Ala
385 390 395 400

Gly Gly Pro

Seq List

<210> 6
 <211> 1348
 <212> DNA
 <213> Mouse

```

<400> 6
gcaccatgcc agcgggggaca gcagctagag cctgggtgct ggttcttgct ctatggggag    60
ctgtagctgg tggtcagaac atcacagccc ggattggaga gccacttggt ctaagctgta    120
agggggcccc taagaagccg ccccagcagc tagaatggaa actgaacaca ggaagaactg    180
aagcttgga ggtcctctct ccccagggag gcccttggga cagcgtggct caaatcctcc    240
ccaatggttc cctcctcctt ccagccactg gaattgtcga tgaggggacg ttccggtgtc    300
gggcaactaa caggcgaggg aaggagggtca agtccaacta ccgagtccga gtctaccaga    360
ttcctgggaa gccagaaatt gtggatcctg cctctgaact cacagccagt gtccctaata    420
aggtggggac atgtgtgtct gaggggaagct accctgcagg gacccttagc tggcacttag    480
atgggaaact tctgattccc gatggcaaag aaacactcgt gaaggaagag accaggagac    540
accctgagac gggactcttt aactgcggt cagagctgac agtgatcccc acccaaggag    600
gaaccacca tcctaccttc tcctgcagtt tcagcctggg ctttccccgg cgcagacccc    660
tgaacacagc ccctatccaa ctccgagtca gggagcctgg gcctccagag ggcattcagc    720
tgttggttga gcctgaagggt ggaatagtcg ctcttggtgg gactgtgacc ttgacctgtg    780
ccatctctgc ccagccccct cctcaggtcc actggataaa ggatggtgca cccttgcccc    840
tggctcccag ccctgtgctg ctctcctctg aggtggggca cgcggatgag ggcacctata    900
gtgcgtggc caccacccct agccacggac ctcaggaaag ccctcctgtc agcatcaggg    960
tcacagaaac cggcgatgag gggccagctg aaggctctgt gggtgagtct gggctgggta   1020
cgtagccct ggccttgggg atcctgggag gcctgggagt agtagccctg ctgctcgggg   1080
ctatcctgtg gcgaaaacga caaccaggc gtgaggagag gaaggccccg gaaagccagg   1140
aggatgagga ggaacgtgca gagctgaatc agtcagagga agcggagatg ccagagaatg   1200
gtgccggggg accgtaagag caccagatc gagcctgtgt gatggcccta gagcagctcc   1260
cccacattcc atcccaattc ctcttgagg cacttccttc tccaaccaga gcccacatga   1320
tccatgctga gtaaacattt gatacggc                                     1348
  
```